INSULATION SCHEDULE PIPE OR DUCT INSULATION INSULATION | THICKNESS | R-VALUE BARRIER RANGE MATERIAL (INCHES) | (BTU/HR-SF-°F) | REQUIRED | REMARKS MECHANICAL SYSTEMS TO BE INSULATED
 PIPE
 1
 4.2
 YES
 2,3

 PIPE
 1
 0.2
 YES
 2,3

 PIPE
 1.5
 6.3
 YES
 2,3
 DOMESTIC COLD WATER 35-100 1/2" TO 1-1/2" 0.2 YES 2,3 6.3 YES 2,3 CHILLED WATER **FIBERGLASS** CHILLED WATER FIBERGLASS BOARD 1.5 6.3 YES CHILLED WATER PUMPS **FIBERGLASS** 6.3 YES 2,4 CHILLED WATER AIR SEPARATORS **FIBERGLASS** BOARD EXISTING PIPING, DUCTWORK AND EQUIPMENT INSULATION EXISTING PIPE AND DUCT INSULATION REPAIR ALL EXISTING INSULATION THAT HAS BEEN DAMAGED SHALL BE REPLACED WITH INSULATION TYPE AND THICKNESS TO MATCH EXISTING. INSULATION SHALL HAVE AN ALL-SERVICE-JACKET PIPE FITTING INSULATION SHALL BE MITERED AND SEALED WITH MASTIC OR COVERED WITH PVC FITTING COVERS. INSULATION SHALL HAVE A CANVAS JACKET. CHILLED WATER PUMPS SHALL BE ENCLOSED IN AN ALUMINUM ENCLOSURE CONSTRUCTED OF REMOVABLE PANELS HELD TOGETHER WITH SNAP-LOCK LATCHES. ENCLOSURE SHALL BE LINED ON THE INSIDE WITH 1.5" OF FIBERGLASS BOARD INSULATION. FILL VOID SPACE IN ENCLOSURE WITH FLEXIBLE FIBERGLASS INSULATION. EXHAUST FAN SCHEDULE PLATE HEAT EXCHANGER SCHEDULE EF-4 CHILLER ROOM LOCATION MANUFACTURER MANUFACTURER 245 ACRUB MODEL NO. AT80MHV B20 SERIAL NO. SERIAL NO. 4,840 SITE ELEVATION (FT) PLATE MATERIAL CONSTRUCTION/GASKETS AIR TEMPERATURE (°F) 5,000 4369 AIRFLOW (ACFM) 0.375 EXTERNAL STATIC PRESSURE (INWC) HEAT TRANSFER CAPACITY (MBH) 660 FAN SPEED (RPM) SURFACE AREA (SF) NUMBER OF PLATES ELECTRICAL CHARACTERISTICS DESIGN PRESSURE (PSIG) VOLTAGE HOT SIDE DATA: FLOW (GPM) FREQUENCY ENTERING WATER TEMP. (°F) **CURB HEIGHT** LEAVING WATER TEMP. (°F) MOTOR CONTROL MAX. WATER PRES. DROP (FT) 21.4 FOULING FACTOR 0.00025 2,3,4,5,6,7,8,9 CONNECTION SIZE (IN) COLD SIDE DATA: 1. EXISTING EXHAUST FAN TO REMAIN. FLOW (GPM) 2. NEW EXHAUST FAN TO BE PROVIDED AND INSTALLED. ENTERING WATER TEMP. (°F) 41.8 3. PROVIDE 16" HIGH HINGED ROOF CURB WITH DAMPER TRAY. LEAVING WATER TEMP. (°F) 4. PROVIDE WITH OPPOSED BLADE LOW LEAK DAMPER WITH STAINLESS STEEL MAX. WATER PRES. DROP (FT) JAMB SEALS AND NEOPRENE BLADE SEALS, RUSKIN CD-60 OR EQUAL. FOULING FACTOR 5. PROVIDE WITH 2-POSITION ELECTRIC DAMPER ACTUATOR AND DAMPER END SWITCH. CONNECTION SIZE (IN) 6. UNIT SHALL BE BELT DRIVEN WITH ADJUSTABLE PITCH SHEAVES. 7. PROVIDE WITH PREMIUM EFFICIENCY INVERTOR DUTY MOTOR. LENGTH (IN) 8. THE INDICATED MANUFACTURER AND ASSOCIATED MODEL NO. AND TYPE OF EQUIPMENT WERE USED FOR HEIGHT (IN) DESIGN PURPOSES. OTHER MANUFACTURERS AND MODELS OF EQUIPMENT MEETING THE QUALITY, WIDTH (IN) PERFORMANCE AND SALIENT CHARACTERISTIC REQUIREMENTS OF THE PLANS AND SPECIFICATIONS OPERATING WEIGHT (LB) IN THE OPINION OF THE ENGINEER OF RECORD SHALL BE ACCEPTABLE. 9. PROVIDE AND INSTALL UNDER DEDUCTIVE ALTERNATE BID NO. 1. 1. EXISTING HEAT EXCHANGER TO BE RELOCATED. 2. EXISTING HEAT EXCHANGER TO BE DISASSEMBLED AND CLEANED. 3. REVISED HEAT EXCHANGER PERFORMANCE. AIR SEPARATOR SCHEDULE MANUFACTURER BELL & GOSSE MODEL NO. RL-10 INTEGRAL STRAINER EXPANSION TANK SCHEDULE DESIGN FLOW (GPM) 9-ET1 CAPACITY (GPM) MANUFACTURER AIR ELIMINATION EFFICIENCY (%) MODEL NO. B - 4002,340 FLOW COEFFICIENT (Cv) PRESSURE DROP (FT) SYSTEM SERVED LINE SIZE (IN) SYSTEM CONTENT (GAL.) SHIPPING WEIGHT (LB) 630 MIN. FILL PRESSURE (PSIG) REMARKS MAX. OPERATING PRESSURE (PSIG) MAX. SYSTEM OPERATING PRESSURE (PSIG) 1. EXISTING AIR SEPARATOR TO BE RELOCATED. AVERAGE WATER TEMP. (F) PRECHARGE PRESSURE (PSIG) TANK VOLUME (GAL.) ACCEPTANCE VOLUME (GAL) DIMENSIONAL DATA TANK DIAMETER (IN.) TANK HEIGHT (IN.) SHIPPING WEIGHT (LB) MAXIMUM OPERATING WEIGHT (LB 1. EXISTING EXPANSION TANK TO REMAIN. One-eighth inch = one toot

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METERPHETER Project Number VA259-12-C-0219 P.O. Box 17868 Drawing Title REPLACEMENT OF OFFICE OF GOLDEN, COLORADO 80402 MECHANICAL SCHEDULES Building Number BLDG 9 ABSORPTION CHILLER FACILITIES GONZALES PH: 303.386.3324 MANAGEMENT CONSULTING & ENGINEERING Approved: Medical Center Director rawing Number Fx: 720.920.9004 2121 NORTH AVENUE GRAND JUNCTION, CO 81505 * PH. (719) 637-8850 * * FAX (719) 632-0300 * sec@secengr.com 2912 BEACON ST. COLORADO SPRINGS, CO 80907 Department of Veterans Affairs Assistant Administrator, Engineering Department Checked RICARDO@GCECOLORADO.COM 03/13/2013 Dwg. 3 of 16